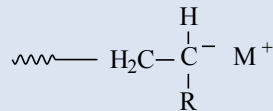
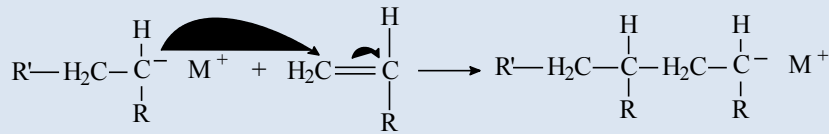
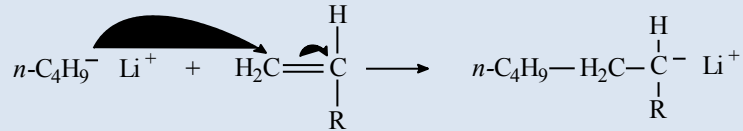
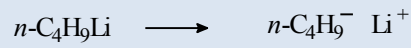
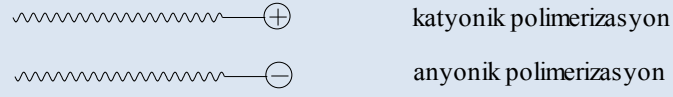
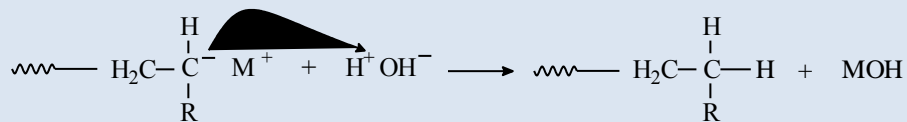


HAFTA-12

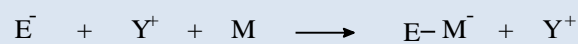
ANYONİK POLİMERİZASYON KİNETİĞİ

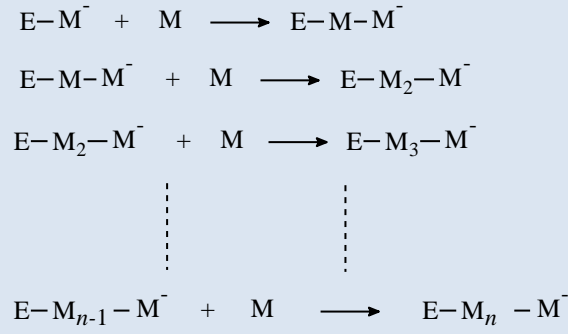


sonlanma



BAŞLATICININ TAMAMEN İYONLARINA AYRIŞMASI





polimerizasyon hızı

$$r_p = -\frac{d[M]}{dt} = k_p' [E^-] [M]$$

$$r_p = -\frac{d[M]}{dt} = k_p' [EY]_o [M]$$

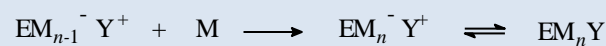
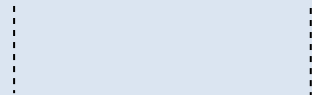
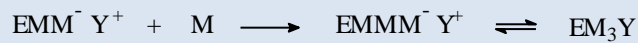
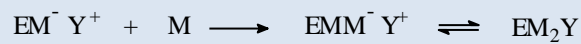
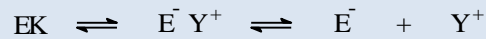
$$k_p = k_p' [EY]_o$$

$$r_p = -\frac{d[M]}{dt} = k_p [M]$$

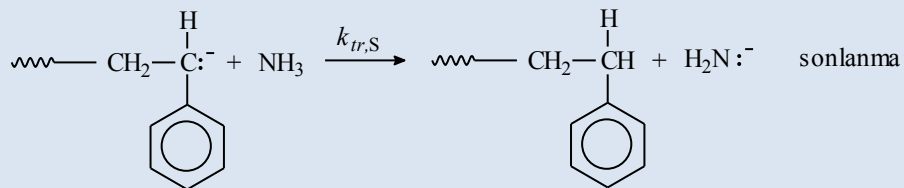
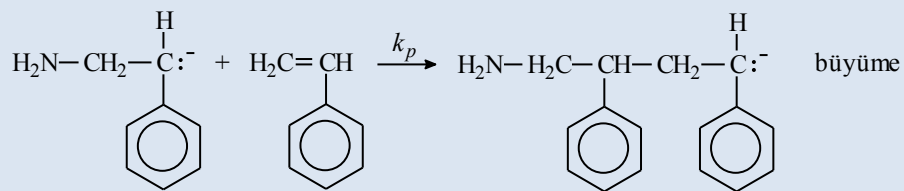
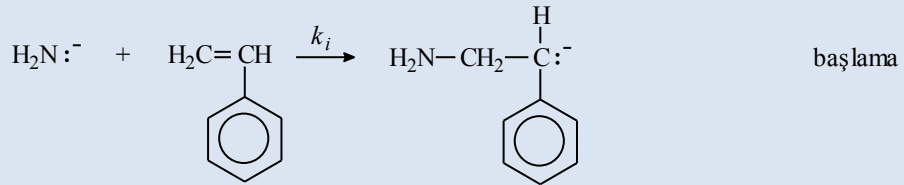
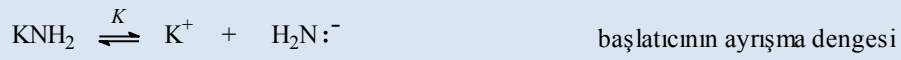
$$\ln[M] = \ln[M]_o - k_p t$$

$$[M] = [M]_o e^{-k_p t}$$

BAŞLATICININ KISMEN İYONLARINA AYRIŞMASI



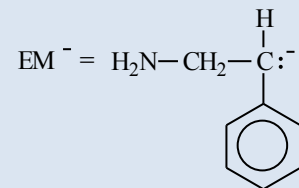
stirenin potasyum amitle anyonik polimerizasyonu



$$EY = \text{KNH}_2$$

$$E^- = \text{H}_2\text{N}^-$$

$$Y^+ = \text{K}^+$$



$$r_i = k_i [\text{NH}_2^-][M]$$

$$r_p = k_p [M^-][M]$$

$$r_t = k_{tr,S} [M^-][\text{NH}_3]$$

$$[\text{NH}_2^-] = K \frac{[\text{KNH}_2]}{[\text{K}^+]}$$

$$r_i = k_i K \frac{[\text{KNH}_2][\text{M}]}{[\text{K}^+]}$$

$$[\text{M}^-] = \frac{k_i}{k_{tr,S}} K \frac{[\text{KNH}_2][\text{M}]}{[\text{K}^+][\text{NH}_3]}$$

$$r_p = k_p \frac{k_i}{k_{tr,S}} K \frac{[\text{KNH}_2][\text{M}]^2}{[\text{K}^+][\text{NH}_3]}$$

$$K = \frac{[\text{NH}_2^-][\text{K}^+]}{[\text{KNH}_2]}$$

$$[\text{K}^+] = K^{1/2} [\text{KNH}_2]^{1/2}$$

$$r_p = k_p \frac{k_i}{k_{tr,S}} K^{1/2} \frac{[\text{KNH}_2]^{1/2} [\text{M}]^2}{[\text{NH}_3]}$$

$$r_i = k_i K^{1/2} [\text{KNH}_2]^{1/2} [\text{M}]$$